

X-16757.ST25.txt  
SEQUENCE LISTING

<110> Applied Molecular Evolution

<120> Fc Region Variants

<130> X-16757

<150> 60/535,764

<151> 2004-01-12

<160> 56

<170> PatentIn version 3.3

<210> 1

<211> 218

<212> PRT

<213> Human

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Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
1 5 10 15

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
20 25 30

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
50 55 60

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
85 90 95

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly  
100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu  
115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn  
145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe  
165 170 175

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn

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185

180

190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr  
 195 200 205

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
 210 215

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<400> 2

Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
 1 5 10 15

Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
 20 25 30

Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr  
 35 40 45

Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
 50 55 60

Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His  
 65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys  
 85 90 95

Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln  
 100 105 110

Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met  
 115 120 125

Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro  
 130 135 140

Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn  
 145 150 155 160

Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu  
 165 170 175

Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val  
 180 185 190

Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln  
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215

<210> 4  
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 <213> Human

&lt;400&gt; 4

Pro Ala Pro Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
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Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
 20 25 30

Val Val Val Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp  
 35 40 45

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
 50 55 60

Glu Gln Phe Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
 65 70 75 80

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
 85 90 95

Lys Gly Leu Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly  
 100 105 110

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu  
 115 120 125

Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
 130 135 140

Pro Ser Asp Ile Ala Val Glu Trp Glx Ser Asn Gly Gln Pro Glu Asn  
 145 150 155 160

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe  
 165 170 175

Leu Tyr Ser Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn  
 180 185 190

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr  
 195 200 205

Gln Lys Ser Leu Ser Leu Ser Leu Gly Lys  
 210 215

&lt;210&gt; 5

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<211> 215  
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 <213> Murine

<400> 5

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 1 5 10 15

Asp Val Leu Thr Ile Thr Leu Thr Pro Lys Val Thr Cys Val Val Val  
 20 25 30

Asp Ile Ser Lys Asp Asp Pro Glu Val Gln Phe Ser Trp Phe Val Asp  
 35 40 45

Asp Val Glu Val His Thr Ala Gln Thr Gln Pro Arg Glu Glu Gln Phe  
 50 55 60

Asn Ser Thr Phe Arg Ser Val Ser Glu Leu Pro Ile Met His Gln Asp  
 65 70 75 80

Cys Leu Asn Gly Lys Glu Phe Lys Cys Arg Val Asn Ser Ala Ala Phe  
 85 90 95

Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Arg Pro Lys  
 100 105 110

Ala Pro Gln Val Tyr Thr Ile Pro Pro Pro Lys Glu Gln Met Ala Lys  
 115 120 125

Asp Lys Val Ser Leu Thr Cys Met Ile Thr Asp Phe Phe Pro Glu Asp  
 130 135 140

Ile Thr Val Glu Trp Gln Trp Asn Gly Gln Pro Ala Glu Asn Tyr Lys  
 145 150 155 160

Asn Thr Gln Pro Ile Met Asp Thr Asp Gly Ser Tyr Phe Val Tyr Ser  
 165 170 175

Lys Leu Asn Val Gln Lys Ser Asn Trp Glu Ala Gly Asn Thr Phe Thr  
 180 185 190

Cys Ser Val Leu His Glu Gly Leu His Asn His His Thr Glu Lys Ser  
 195 200 205

Leu Ser His Ser Pro Gly Lys  
 210 215

<210> 6  
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&lt;400&gt; 6

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 Lys Ile Lys Asp Val Leu Met Ile Ser Leu Ser Pro Ile Val Thr Cys  
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 Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp  
 35 40 45  
 Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg  
 50 55 60  
 Glu Asp Tyr Asn Ser Thr Leu Arg Val Val Ser Ala Leu Pro Ile Gln  
 65 70 75 80  
 His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn  
 85 90 95  
 Lys Asp Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly  
 100 105 110  
 Ser Val Arg Ala Pro Gln Val Tyr Val Leu Pro Pro Pro Glu Glu Glu  
 115 120 125  
 Met Thr Lys Lys Gln Val Thr Leu Thr Cys Met Val Thr Asp Phe Met  
 130 135 140  
 Pro Glu Asp Ile Tyr Val Glu Trp Thr Asn Asn Gly Lys Thr Glu Leu  
 145 150 155 160  
 Asn Tyr Lys Asn Thr Glu Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe  
 165 170 175  
 Met Tyr Ser Lys Leu Arg Val Glu Lys Lys Asn Trp Val Glu Arg Asn  
 180 185 190  
 Ser Tyr Ser Cys Ser Val Val His Glu Gly Leu His Asn His His Thr  
 195 200 205  
 Thr Lys Ser Phe Ser Arg Thr Pro Gly Lys  
 210 215

&lt;210&gt; 7

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Murine

&lt;400&gt; 7

Pro Ala Pro Asn Leu Glu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro  
 1 5 10 15

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Asn Ile Lys Asp Val Leu Met Ile Ser Leu Thr Pro Lys Val Thr Cys  
 20 25 30  
 Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val Gln Ile Ser Trp  
 35 40 45  
 Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr Gln Thr His Arg  
 50 55 60  
 Glu Asp Tyr Asn Ser Thr Ile Arg Val Val Ser His Leu Pro Ile Gln  
 65 70 75 80  
 His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys Lys Val Asn Asn  
 85 90 95  
 Lys Asp Leu Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly  
 100 105 110  
 Leu Val Arg Ala Pro Gln Val Tyr Thr Leu Pro Pro Pro Ala Glu Gln  
 115 120 125  
 Leu Ser Arg Lys Asp Val Ser Leu Thr Cys Leu Val Val Gly Phe Asn  
 130 135 140  
 Pro Gly Asp Ile Ser Val Glu Trp Thr Ser Asn Gly His Thr Glu Glu  
 145 150 155 160  
 Asn Tyr Lys Asp Thr Ala Pro Val Leu Asp Ser Asp Gly Ser Tyr Phe  
 165 170 175  
 Ile Tyr Ser Lys Leu Asn Met Lys Thr Ser Lys Trp Glu Lys Thr Asp  
 180 185 190  
 Ser Phe Ser Cys Asn Val Arg His Glu Gly Leu Lys Asn Tyr Tyr Leu  
 195 200 205  
 Lys Lys Thr Ile Ser Arg Ser Pro Gly Lys  
 210 215

<210> 8  
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<400> 8

Pro Pro Gly Asn Ile Leu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro  
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 Lys Pro Lys Asp Ala Leu Met Ile Ser Leu Thr Pro Lys Val Thr Cys  
 20 25 30

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Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val His Val Ser Trp  
           35                  40                  45  
 Phe Val Asp Asn Lys Glu Val His Thr Ala Trp Thr Gln Pro Arg Glu  
       50                  55                  60  
 Ala Gln Tyr Asn Ser Thr Phe Arg Val Val Ser Ala Leu Pro Ile Gln  
   65                  70                  75                  80  
 His Gln Asp Trp Met Arg Gly Lys Glu Phe Lys Cys Lys Val Asn Asn  
                   85                  90                  95  
 Lys Ala Leu Pro Ala Pro Ile Glu Arg Thr Ile Ser Lys Pro Lys Gly  
                  100                 105                 110  
 Arg Ala Gln Thr Pro Gln Val Tyr Thr Ile Pro Pro Pro Arg Glu Gln  
          115                 120                 125  
 Met Ser Lys Lys Lys Val Ser Leu Thr Cys Leu Val Thr Asn Phe Phe  
      130                 135                 140  
 Ser Glu Ala Ile Ser Val Glu Trp Glu Arg Asn Gly Glu Leu Glu Gln  
   145                 150                 155                 160  
 Asp Tyr Lys Asn Thr Pro Pro Ile Leu Asp Ser Asp Gly Thr Tyr Phe  
          165                 170                 175  
 Leu Tyr Ser Lys Leu Thr Val Asp Thr Asp Ser Trp Leu Gln Gly Glu  
          180                 185                 190  
 Ile Phe Thr Cys Ser Val Val His Glu Ala Leu His Asn His His Thr  
      195                 200                 205  
 Gln Lys Asn Leu Ser Arg Ser Pro Gly Lys  
      210                 215

<210> 9  
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 Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val  
          20                 25                 30  
 Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr  
      35                 40                 45



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Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu  
50 55 60

Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His  
65 70 75 80

Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys  
85 90 95

Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys  
100 105 110

<210> 10  
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1 5 10 15

Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe  
20 25 30

Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu  
35 40 45

Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe  
50 55 60

Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly  
65 70 75 80

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr  
85 90 95

Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
100 105

<210> 11  
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<213> Human

<400> 11

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30

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Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45  
 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60  
 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 65 70 75 80  
 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 85 90 95  
 Arg Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
 100 105 110  
 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
 115 120 125  
 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
 130 135 140  
 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 145 150 155 160  
 Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
 165 170 175  
 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
 180 185 190  
 His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
 195 200 205  
 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly  
 210 215 220  
 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu  
 225 230 235 240  
 Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
 245 250 255  
 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn  
 260 265 270  
 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe  
 275 280 285  
 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn  
 290 295 300

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Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr  
 305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
 325 330

<210> 12  
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<400> 12

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
 1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 85 90 95

Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
 100 105 110

Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
 115 120 125

Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
 130 135 140

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 145 150 155 160

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu  
 165 170 175

Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
 180 185 190

His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
 195 200 205

X-16757.ST25.txt

Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly  
210 215 220

Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu  
225 230 235 240

Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
245 250 255

Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn  
260 265 270

Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe  
275 280 285

Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn  
290 295 300

Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr  
305 310 315 320

Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
325 330

<210> 13  
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<213> Human

<400> 13

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
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His Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
20 25 30

<210> 14  
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<212> PRT  
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<400> 14

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
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Ile Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
20 25 30

<210> 15  
<211> 31  
<212> PRT

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&lt;213&gt; Human

&lt;400&gt; 15

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
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Leu Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
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&lt;210&gt; 16

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 16

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
1 5 10 15

Pro Lys Asp Thr Phe Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
20 25 30

&lt;210&gt; 17

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 17

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
1 5 10 15

Pro Lys Asp Thr Leu Met Ile Ser Arg Met Pro Glu Val Thr Cys  
20 25 30

&lt;210&gt; 18

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 18

Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys  
1 5 10 15

Pro Lys Asp Thr Leu Met Ile Ser Arg Pro Pro Glu Val Thr Cys  
20 25 30

&lt;210&gt; 19

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 19

Val Val Val Asp Val Ser Asp Glu Asp Pro Glu Val Lys Phe Asn Trp  
1 5 10 15

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Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys  
                   20                  25

<210> 20  
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<400> 20

Val Val Val Asp Val Ser Glu Glu Asp Pro Glu Val Lys Phe Asn Trp  
 1                  5                  10                  15

Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys  
                   20                  25

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<400> 21

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 1                  5                  10                  15

Tyr Val Ala Gly Val Glu Val His Asn Ala Lys Thr Lys  
                   20                  25

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<400> 22

Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 1                  5                  10                  15

Tyr Val Lys Gly Val Glu Val His Asn Ala Lys Thr Lys  
                   20                  25

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<400> 23

Cys Lys Val Ser Asn Lys Ala Leu Pro Lys Pro Ile Glu Lys Thr Ile  
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Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
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<210> 24  
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X-16757.ST25.txt

<212> PRT  
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<400> 24

Cys Lys Val Ser Asn Lys Ala Leu Pro Arg Pro Ile Glu Lys Thr Ile  
1 5 10 15

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
20 25 30

<210> 25  
<211> 30  
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<400> 25

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Asp Glu Lys Thr Ile  
1 5 10 15

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
20 25 30

<210> 26  
<211> 30  
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<400> 26

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Glu Glu Lys Thr Ile  
1 5 10 15

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
20 25 30

<210> 27  
<211> 30  
<212> PRT  
<213> Human

<400> 27

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Lys Glu Lys Thr Ile  
1 5 10 15

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
20 25 30

<210> 28  
<211> 30  
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<213> Human

<400> 28

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Arg Glu Lys Thr Ile  
1 5 10 15

X-16757.ST25.txt

Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
                   20                  25                  30

<210> 29  
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<400> 29

Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile  
 1                  5                  10                  15

Ser Lys Thr Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr  
                   20                  25                  30

<210> 30  
 <211> 22  
 <212> PRT  
 <213> Human

<400> 30

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 1                  5                  10                  15

Ser Asn Gly Gln Pro Glu  
                   20

<210> 31  
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 <212> PRT  
 <213> Human

<400> 31

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Tyr  
 1                  5                  10                  15

Leu Ser Leu Ser Pro Gly Lys  
                   20

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<400> 32

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tggaaactcag gcgccctgac cagcggcgtg cacaccttcc cggctgtcct acagtcctca	180
ggactctact ccctcagcag cgtgggtgacc gtgccctcca gcagcttggg caccagacc	240
tacatctgca acgtgaatca caagcccagc aacaccaagg tggacaagaa ggttgagccc	300



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aaatcttgtg acaaaactca cacatgcccc ccgtgcccag cacctgaact cctgggggga 360
ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc tcatgatctc ccggaccct 420
gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc ctgaggtcaa gttcaactgg 480
tacgtggacg gcgtggaggt gcataatgcc aagacaaagc cgcgggagga gcagtacaac 540
agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc aggactggct gaatggcaag 600
gagtacaagt gcaaggtctc caacaaagcc ctcccagccc ccatcgagaa aaccatctcc 660
aaagccaaag ggcagccccg agaaccacag gtgtacaccc tgccccatc ccgggacgag 720
ctgaccaaga accaggtcag cctgacctgc ctggtcaaag gcttctatcc cagcgacatc 780
gccgtggagt gggagagcaa tgggcagccg gagaacaact acaagaccac gcctcccgtg 840
ctggactccg acggctcctt cttcctctat agcaagctca ccgtggacaa gagcaggtgg 900
cagcagggga acgtcttctc atgctccgtg atgcatgagg ctctgcacaa ccactacacg 960
cagaagagcc tctccctgtc tccgggtaaa 990

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<210> 33  
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<400> 33
gcacctgaac tcctgggggg accgtcagtc ttcctcttcc ccccaaaacc caaggacacc 60
ctcatgatct cccggacccc tgaggtcaca tgc 93

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<400> 34
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gtggaggtgc ataatgccaa gacaaag 87

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<210> 35  
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 <212> DNA  
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gggcagcccc gagaaccaca ggtgtacacc 90

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<210> 36  
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<400> 36
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ccgggtaaa 69

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X-16757.ST25.txt

<210> 37  
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<400> 37  
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ccggag 66

<210> 38  
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<212> DNA  
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ctcatgatct cccggacccc tgaggtcaca tgc 93

<210> 39  
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